This application has been reviewed in light of the Office Action dated June 23, 2006, on

which the shortened period for response expired on September 23, 2006. Claims 1-20 are now

pending in the present application.

THE 35 U.S.C. §103(A) REJECTION OVER U.S. PATENT NO. 6,018,374 ("WROBLESKI") IN

<u>view of U.S. Patent No. 5,680,454 ("Mead")</u>

In the Office Action, the Examiner rejected Claims 1, 2-5, 10, and 11 under 35 U.S.C. §

103(a) as being unpatentable (obvious) over U.S. Patent No. 6,018,374 ("Wrobleski") in view of

U.S. Patent No. 5,680,454 ("Mead"). Applicants respectfully request that this rejection be

withdrawn because Wrobleski and Mead, alone or in combination, fail to teach, suggest, or

provide motivation for each and every claim limitation called for in Claims 1, 2-5, 10, and 11.

Wrobleski describes a system and method for preventing a visible video copy being made

of a projected image on a screen. To prevent the copying of a projected image by a video

camcorder, a focused or unfocused image in the infrared spectrum is projected on top of the

visual image. The infrared image is not visible to viewers, but is visible to the camcorder so that

the image appears to be distorted to the camcorder.

Mead discloses a method and system for preventing unauthorized duplication of a

projected image by a camcorder. To prevent the copying of a projected image by a video

camcorder, a pseudo-random noise sequence is generated. This pseudo-random noise sequence

signal is used to randomly vary the frame rate of the projected image at the projector. A human

viewer cannot perceive the small variations in frame rate, but a camcorder will record a loss of

vertical synchronization and the recorded image is thus unwatchable.

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Attorney Docket No: 18703-377 (SAR 13774)

In the present application, Applicants recite in independent Claim 1 a method for

distorting a recording of projected images without varying the frame frequency of the

projector, by imposing an interference on the projected images at a frame rate frequency that

renders the interference imperceptible to a human viewer; wherein a difference between the

interference frame rate frequency and the recording frame frequency is perceptible to a

human.

In independent Claim 11, the invention is described as a method for operating a motion

picture projector without varying the projector frame frequency, by determining a recording

device frame frequency; and blanking a projected image at a humanly imperceptible blanking

frame rate frequency, wherein a difference between the frame frequency and the blanking frame

rate frequency is a humanly perceptible frame frequency.

As stated by the Examiner, Wroboski does not teach that the interference or the blanking

is at a frame rate frequency. Similarly, Wroboski does not teach that the difference between the

interference or blanking frame rate frequency and the recording frame rate frequency is

perceptible by a human (viewed with a camcorder). Accordingly, Wrobleski fails to disclose

each and every limitation of 1 and 11.

Mead fails to cure the deficiencies of Wrobleski. Mead discloses an apparatus and

method in which the frame rate of the projector is varied in a pseudorandom fashion about a

nominal frame rate frequency. Thus, a motion picture projector is operated precisely by directly

varying the projector frame frequency. Accordingly, Wrobleski in combination with Mead fails

to teach, suggest, or provide motivation for each and every limitation of Claims 1 and 11. As

such, the Applicants respectfully request that the §103(a) rejection of Claims 1 and 11, and

claims dependent therefrom (i.e., Claims 2-5, and 10) be withdrawn.

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THE 35 U.S.C. §103(A) REJECTION OVER WROBLESKI IN VIEW OF MEAD AND FURTHER IN

VIEW OF U.S. PATENT No. 6,041,158 ("SATO")

In the Office Action, the Examiner rejected Claims 7, 8, 12-15, and 18 under 35 U.S.C. §

103(a) as being unpatentable (obvious) over Wrobleski in view of Mead and further in view of

U.S. Patent No. 6.041.158 ("Sato"). Applicants respectfully request that this rejection be

withdrawn because Wrobleski, Mead, and Sato, alone or in combination, fail to teach, suggest, or

provide motivation for each and every claim limitation called for in Claims 7, 8, 12-15, and 18.

Sato discloses a method for preventing an analog color video signal from being

satisfactorily copied. Sato provides a copy protection scheme for video recording equipment, in

which a copy protection signal is formed of a phase-shifted color burst signal of predetermined

duration and is inserted into a predetermined location of the color burst signal of an analog video

signal in analog video recording equipment.

Sato fails to cure the deficiencies of Wrobleski and Mead. The device disclosed in Sato

is operating directly on video recording equipment (see FIG. 4, reference 1 and Col. 6, line 66

to Col. 7, line 3), not equipment for projecting a motion picture. Sato does not teach that the

difference between the interference or blanking frame rate frequency and the recording frame

rate frequency is perceptible by a human (viewed with a camcorder). Sato is introducing a

supplementary signal into a color burst signal of the recording equipment, which has nothing to

do with the frame rate or blanking frequency of a projected image on a screen.. Accordingly,

the proposed combination of Wrobleski, Mead, and Sato fails to teach, suggest, or provide

motivation for each and every element of Claims 1 from which Claims 7 and 8, depend. As

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such, the Applicants respectfully request that the §103(a) rejection of Claims 7 and 8 be

withdrawn.

In the present application, Applicants recite in Claim 12 a projection system for distorting

a recording of projected images which includes an interfering element including a separator for

separating image data into a plurality of colors; and a controller coupled to the interfering

element, wherein the controller, without varying the **projector image** frame frequency, causes

the interfering element to impose an alteration on the projected images at a humanly

imperceptible frame rate.

As the examiner has stated, neither Wrobleski nor Mead nor Sato disclose an interfering

element which includes a color separator for separating image data into a plurality of colors.

Sato does not teach same. At Col. 6, lines 5-8, Sato discloses that the video signal reproducing

device generates a luminance signal Y and a color signal CF. Furthermore, the color signal is the

composite color signal, not a color signal separated into different colors. Furthermore, the

device disclosed in Sato is operating directly on video recording equipment, not equipment for

projecting a motion picture which produces a projected image. As such, Wrobleski in

combination with Mead and Sato fails to teach, suggest, or provide motivation for each and

every limitation of Claim 12. As such, the Applicants respectfully request that the §103(a)

rejection of Claims 12, and claims dependent therefrom (i.e., Claims 13-15, and 18) be

withdrawn.

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In the Office Action, the Examiner rejected Claims 6, 9, 16, 17, 19, and 20 under 35

U.S.C. § 103(a) as being unpatentable (obvious) over Wrobleski in view of Mead in view of Sato

and further in view of U.S. Patent No. 5,394,274 ("Kahn"). Applicants respectfully request that

this rejection be withdrawn because Wrobleski, Mead, Sato and Kahn, alone or in combination,

fail to teach, suggest, or provide motivation for each and every claim limitation called for in

Claims 6, 9, 16, 17, 19, and 20.

Kahn discloses a system for preventing the unauthorized copying of audio or video

recordings by processing the recorded material so as to identify the protected material in a

manner that does not audibly distort the program material, and processing the recorded material

by a second methods that produces audible artifacts. The audible artifacts are defined as

undesired sounds that are not part of the desired program material. The artifacts are introduced

directly into the protected recordings.

Kahn does not teach that the difference between the interference or blanking frame rate

frequency and the recording frame rate frequency is perceptible by a human (viewed with a

camcorder). Kahn is introducing an audio signal into the recording made by recording

equipment, which has nothing to do with the frame rate or blanking frequency of a projected

video image on a screen.. Accordingly, the proposed combination of Wrobleski, Mead, Sato,

and Kahn fail to teach, suggest, or provide motivation for each and every element of Claim 1 and

11 from which Claims 6, 9, 19, and 20 depend. As such, the Applicants respectfully request that

the §103(a) rejection of Claims 6, 9, 19, and 20 be withdrawn.

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Appln. No. 09/592,472

Amendment dated December 22, 2006

Reply to Office Action of June 23,, 2006

Attorney Docket No: 18703-377 (SAR 13774)

As the examiner has stated, neither Wrobleski nor Mead nor Sato disclose an interfering

element which includes a color separator for separating image data into a plurality of colors.

Sato does not teach same. Furthermore, the device disclosed in Mead is introducing audio

artifacts into the recording made by recording equipment and perceived audibly by a listener,

not video artifacts perceived visually by a viewer. As such, Wrobleski in combination with

Mead, Sato, and Kahn fails to teach, suggest, or provide motivation for each and every limitation

of Claim 12, from which Claims 16 and 17, depend. As such, the Applicants respectfully

request that the §103(a) rejection of Claims 16 and 17 be withdrawn.

In light of the remarks herein, all rejections are believed to have been obviated.

Accordingly, Applicants respectfully submit that Claims 1-20 are in condition for allowance.

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**CONCLUSION** 

If fees are deemed necessary for this Response to be entered and considered by the

Examiner, then the Commissioner is authorized to charge such fee to Deposit Account No.

501358.

Applicants' undersigned patent agent may be reached by telephone at (973) 597-2500.

All correspondence should continue to be directed to our address listed below.

Respectfully submitted,

Raymond G. Cappo

Registration No. 53,836

Registered Patent Agent for

**Applicants** 

DOCKET ADMINISTRATOR LOWENSTEIN SANDLER PC 65 Livingston Avenue

Roseland, NJ 07068

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